### PATENT COOPERATION TREATY

## **PCT**

# Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's FA-K	s or agent's file referen -1-8	FOR FURTH	ER ACTION	See Form PCT/IPEA/416		
International application No.		International fil	ing date (day/month/year)	Priority date (day/month/year)		
PCT/JP2004/009509		509 29.06.2	2004	04.07.2003		
		n (IPC) or national classification /02, 14/04	n and IPC			
	MA CORPORA	TION				
บ	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. 7	This REPORT consists	of a total of 4	sheets, includi	ng this cover sheet.		
3. Т	This report is also acco	mpanied by ANNEXES, compr	ising:			
ä	a. (sent to the	applicant and to the Internation	nal Bureau) a total of	sheets, as follows:		
	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:  sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
ł	b. (sent to the	International Bureau only) a to	tal of (indicate type and numb	er of electronic carrier(s))		
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. Т	This report contains ind	lications relating to the following	ng items:	·		
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion	n with regard to novelty, inver	ntive step and industrial applicability		
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Au citations and explanations sup		elty, inventive step or industrial applicability;		
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the internat	tional application			
	Box No. VIII	Certain observations on the in	nternational application			
Date of sul	bmission of the demand	d	Date of completion of t	his report		
Name and mailing address of the IPEA/JP			Authorized officer			
Facsimile 1	No.		Telephone No.			

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/009509

Box	No. I	Basis of the report	
1.		h regard to the language, this report is based on the internation cated under this item.	onal application in the language in which it was filed, unless otherwise
		This report is based on translations from the original langua	
		which is the language of a translation furnished for the purp	poses of:
		international search (Rule 12.3 and 23.1(b))	
		publication of the international application (Rule 12.4	<b>1</b> )
		international preliminary examination (Rule 55.2 and	Vor 55.3)
2.	recei	_	report is based on (replacement sheets which have been furnished to the referred to in this report as "originally filed" and are not annexed to
	$\boxtimes$	the international application as originally filed/furnished	
	<u>"</u>	the description:	
		pages	as originally filed/furnished
		pages*	received by this Authority on
		pages*	received by this Authority on
	Ш	the claims:	
		nos.	as originally filed/furnished
		nos.*	as amended (together with any statement) under Article 19
		nos.*	received by this Authority on
		nos.*	received by this Authority on
		the drawings:	
		sheets	as originally filed/furnished
		sheets*	received by this Authority on
		a sequence listing and/or any related table(s) - see Supplement	mental Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:	· ·
		the description, pages	
		the claims, nos.	
	_		
4.	Ц	they have been considered to go beyond the disclosure as fi	
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
*	lf ite	em 4 applies, some or all of those sheets may be marked "sup	erseded."

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2004/009509

Box				rticle 35(2) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement				
	Novelty (N)		Claims	1-4	_ YES
			Claims		_ NO
	Inventive step (IS)		Claims		_ YES
			Claims	1-4	_ NO
	Industrial applicability (IA)		(A) Claims	1-4	_ YES
			Claims		_ NO
2.	Citations and explan	nations (	Rule 70.7)	<del></del>	
	Document	1:	JP 2001	-261414 A (Kajima Corp.), 26	
				er 2001, claims, paragraphs [0014]-	
			[0022]		
	Document	2:	JP 2001	-278653 A (Taiheiyo Cement Corp.), 10	
			October	2001, claims, paragraphs [0001],	
			[0002],	[0020]-[0029]	
	Document	3:	JP 2001	-240455 A (Asahi Kasei Corp.), 4	
			Septemb	er 2001, claims, paragraphs [0001],	
			[0018]-	[0028]	
	Document	4:	JP 2001	-226160 A (Taiheiyo Cement Corp.), 21	

The invention set forth in claims 1 to 4 does not involve an inventive step in the light of document 1 and documents 2 to 4 cited in the international search report.

[0004], [0022]-[0025]

August 2001, claims, paragraphs [0001]-

Document 1 discloses a feature wherein, by using a synthetic lightweight aggregate having an absorption of 12 to 20%, a crushing load of 1,000 to 2,000 N, and an oven-dry density of 1.4 to 1.8 g/cm³ for one portion of an aggregate used in concrete, a self-curing function is developed, thereby limiting shrinkage. Therefore, it

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International application No.
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Box 3	No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicab citations and explanations supporting such statement	ility;
	would	d be obvious to a person skilled in the art to use	2
	the s	synthetic lightweight aggregate disclosed in docum	ment
	1 for	r one portion of an aggregate used in a super high	7-
	stren	ngth concrete for which limited shrinkage is desir	ced,
	such a	as is disclosed in documents 2 to 4.	